



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor

William G. Ross Jr., Secretary

January 12, 2006

Mr. Noel Lyons
McGill Environmental Systems
634 Christian Chapel Church Road
New Hill, North Carolina 27562

Re: McGill Environmental Systems – SWC-19-06

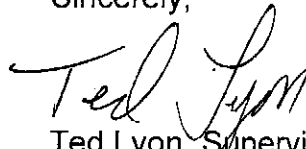
Dear Mr. Lyons:

The Division of Waste Management has reviewed your December 12, 2005 request to modify the compost permit for McGill Environmental Systems of North Carolina, Inc. Large Type 4 Solid Waste Compost Facility at 634 Christian Chapel Church Road in Chatham County, North Carolina. Before we can complete our review of your request the following issues must be addressed:

1. The site plan submitted does not indicate the areas that will be used for storage or that part of the storage that will be in windrows.
2. Previously you had mentioned that you wanted to grind wood waste at the site. If this activity is still in your plans that area also needs to be located on the site plan.
3. We need written documentation from Chatham County that the proposed expansion and use changes do not violate their ordinances.
4. The leachate collection trench is unacceptable as proposed. The trench sides and bottom need to be constructed of impervious material. The geotextile material should be used to protect the liner. If constructed as proposed the trench could allow for ground absorption.

5. The trench design also shows the geotextile material overlapping over the collection pipe. This material may clog over time. You should include periodic inspection of this material in your O&M if it is to be used in this manner.
6. Your proposal to direct leachate collected to the stormwater/storage pond will need to be approved by the NC Division of Water Quality. We need written documentation from DWQ that this practice is consistent with their existing approval or a modified permit to show the change.
7. Your O&M manual will have to be modified to show how water from the basin will be monitored or reused in such a manner that stored or curing compost will not be exposed to pathogens.

Sincerely,

A handwritten signature in black ink, appearing to read "Ted Lyon". The signature is fluid and cursive, with the first name "Ted" and last name "Lyon" clearly distinguishable.

Ted Lyon, Supervisor
Composting & Land Application Branch

cc: Dennis Shackleford, Waste Management Specialist, Fayetteville Regional Office
Central File, Solid Waste Section

h:cla/Compost/permits/19-chatham/Mcgill/SWC-19-06_01-06_apprev



December 12, 2005

Mr. Ted Lyon, Supervisor
Composting and Land Application Branch
NCDENR Division of Waste Management
1646 Mail Service Center
Raleigh, N. C. 27699



RE: Permit Number SWC-19-06

Dear Mr. Lyon:

With this letter we are requesting 3 amendments to solid waste permit number SWC-19-06.

The first relates to the expansion of the curing and storage area. We request addition of the cleared area west of the plant marked on the attached site plan as "proposed curing pad area". The acreage of this pad is approximately 2 acres; this brings the total area of impervious surface of the site to 14.27 acres as indicated on the site plan. This falls within the Chatham County Zoning requirements which allow for 36% coverage of the total site (48.512 acres) in impervious surfaces. The pad will be constructed with similar material to that used in the construction of the existing curing and storage pads. It will be placed to a minimum thickness 18 inches.

The second amendment concerns the mechanism for managing any leachate from the biofilter. Subject to approval we intend to place a collection and drainage system immediately below the biofilter. This would consist of a 12" perforated drainage pipe placed in a bed of rock (a detail is shown in the attached drawing labeled "Typical French drain detail"). The leachate would be piped to an area in front of the large storm water basin at the south end of the site. From here it would be passed through a 100 ft. by 4 ft. rock filter bed before entering the storm water basin.

The third amendment relates to managing of storm water from this basin located at the south west corner of the property. We propose to change the drainage mechanism to allow water to be collected and retained in this basin. The primary objective of this change is to give us another source of water for wetting windrows and dust control. This past year we struggled with water shortages and on occasion resorted to renting a water tanker and hauling water from a neighboring business. The increased curing area expands our need for water. Using recycle water from the basin is both financially and environmentally the best option. A portable pump will be used to remove water from the basin as needed. Leachate from the biofilter will be reused with this water.

The attached drawing is an updated site plan.

December 12, 2005

Please contact Steve Cockman or I for any further information.

Steve Cockman / Office 919-362-1161

Mobile 919-542-8903

Noel Lyons / Office 919-362-1161

Mobile 910-990-3188

Sincerely,

A handwritten signature in black ink, appearing to read "M. Noel Lyons", with a long, sweeping horizontal stroke extending to the right.

M. Noel Lyons